



Supplementary Figure 1. Magazine entry data for all experiments (acquisition, pre- and post-devaluation extinction and reacquisition sessions). **(A, D, G, J)** Acquisition graphs showing decreasing magazine entries over training sessions. **(B, E, H, K)** Magazine entries during pre- and post-devaluation extinction sessions show no change as a product of outcome devaluation. **(C, F, I, L)** Magazine entries during pre- and post-devaluation reacquisition sessions show no change as a product of outcome devaluation.

Exp	Predictors	Acquisition			Extinction			Reacquisition		
		Est.	CI	<i>p</i>	Est	CI	<i>p</i>	Est	CI	<i>p</i>
1	Group	-0.02	-0.74 – 0.70	.96	-0.27	-0.88 – 0.33	.38	-0.06	-0.32 – 0.20	.67
	Session	-0.52	-0.69 – (-0.35)	<b>&lt;.001</b>	0.51	0.07 – 0.94	<b>.03</b>	0.05	-0.07 – 0.18	.42
	Int.	0.22	-0.02 – 0.47	.09	-0.33	-0.94 – 0.28	.30	-0.08	-0.25 – 0.10	.42
2	Group	-0.70	-1.49 – 0.08	.10	-0.37	-0.79 – 0.04	.10	-0.82	-1.61 – (-0.03)	.06
	Session	-0.38	-0.56 – (-0.20)	<b>.001</b>	-0.14	-0.37 – 0.09	.25	0.25	0.09 – 0.41	<b>.008</b>
	Int.	0.06	-0.19 – 0.32	.64	0.23	-0.10 – 0.56	.19	-0.25	-0.47 – (-0.02)	.051
3	Group	-0.63	-1.97 – 0.62	.34	-0.49	-1.55 – 0.58	.38	-1.96	-5.47 – 1.54	.29
	Session	-0.05	-0.36 – 0.25	.73	0.27	-0.08 – 0.61	.15	0.31	-0.01 – 0.63	.08
	Int.	-0.19	-0.63 – 0.24	.39	-0.06	-0.55 – 0.42	.80	-0.30	-0.75 – 0.15	.21
4	Group	-0.02	-1.22 – 1.19	.98	0.30	-0.35 – 0.94	.38	0.17	-0.43 – 0.77	.59
	Session	-0.37	-0.61 – (-0.13)	<b>.006</b>	0.01	-0.31 – 0.32	.96	0.00	-0.21 – 0.31	.98
	Int.	-0.23	-0.57 – 0.10	.19	-0.16	-0.60 – 0.29	.50	-0.29	-0.73 – 0.16	.23

Supplementary Table 1. Summary of linear mixed models effects (Group, Session, Group X Session interaction) on magazine entry rate by experiment (Exp) and by phase of experiment, organized in a fashion similar to Supplementary Figure S1. Reported statistics include parameter estimates (Est.), 95% confidence intervals (CI), and p-values (*p*).

## Supplemental Methods

### Data analysis

Magazine entry rates during CS+ presentations were calculated (total entries/25) for acquisition, extinction, and reacquisition sessions. Zero-sum contrasts were made for categorical variables where appropriate (e.g. Group Saline-Pellet vs. Group LiCl-Pellet). Individual linear mixed models (R; “lme4”) were used to analyze effects of dependent variable responding (e.g. entries per trial) by fixed effects of experimental group, session, and the interaction between group and session while accounting for random effects of differences in individual starting press rates and individual learning rates over sessions. Results from these models are summarized in Supplementary Table 1. All statistical tests were carried out using R (R Core Team 2016). All graphs were created through R (R; “ggplot2”) and designed with Adobe Illustrator.